



General Services Administration
Federal Acquisition Service
Assisted Acquisition Services Division
Southeast Sunbelt Region

Task Order: ID04170197 Date: 14 Aug 2018		GSA Contract Specialist: Rebecca Phone: (b) (6) Email: r[REDACTED]gsa.gov GSA Senior Contracting Officer: Amber Br Phone: (b) (6) Email: a[REDACTED]a.gov	
Client Organization: Warner Robins Air Logistics Complex 402 Software Maintenance Group Robins AFB, Georgia		Primary Client Representative: Tom Tran Phone: (478) 926-3173 Email: thanh.tran@us.af.mil	
Project Name: RQ-4B Global Hawk (GH)Avionics Integration Support (AIS) Upgrade		Period of Performance: 24 Months	
	<u>Contract</u>		<u>Funding</u>
<input type="checkbox"/>	Firm Fixed Price	<input type="checkbox"/>	Severable
<input type="checkbox"/>	Labor Hour	<input checked="" type="checkbox"/>	Non-Severable
<input type="checkbox"/>	Time and Material		
<input type="checkbox"/>	Cost-Reimbursement	<input checked="" type="checkbox"/>	Fully Funded
<input checked="" type="checkbox"/>	Hybrid (CPFF, FFP, CR)	<input type="checkbox"/>	Incrementally Funded
	Vehicle: GSA Alliant GWAC		

Performance Work Statement (PWS)

RQ-4B Global Hawk (GH) Avionics Integration Support Upgrade

1 Introduction

This Performance Work Statement (PWS) defines the effort required for designing, developing, integrating, testing, managing, documenting, delivering, installing and providing user training for the Global Hawk (GH) Avionics Integration Support (AIS) Upgrade system. The purpose of the GH AIS Upgrade is to provide a reconfigurable, high-fidelity test bed that serves as a comprehensive software and hardware support environment for the sustainment of selected systems of the RQ-4B (Block 30/40) GH variant listed in Table 6 of this PWS. The contractor shall be responsible for all efforts and resources necessary to produce, deliver, and install the GH AIS Upgrade system.

1.1 Project Background

The Air Force requires a GH AIS Upgrade system to enable organic depot-level sustainment of selected RQ-4B systems.

1.2 Purpose

The GH AIS Upgrade system is required to support the maintenance, test and integration of Operational Flight Programs (OFPs) resident in the Embedded Computer Systems (ECSs) of GH Line Replaceable Units (LRUs), provide analysis tools to evaluate software problem reports and to support integration of modified payload and/or aircraft system components.

1.3 Services Summary

PERFORMANCE OBJECTIVE	PWS PARA	SCHEDULE HIGHLIGHTS
Meet established schedule	4.2.1	Kickoff Meeting-Within 10 days ARO
	4.2.2	PMRs-Quarterly
	4.2.3	System Requirements Review (SRR) (with HW PDR)-Within 4.5 Months ARO
	4.2.4	PDR (with HW CDR)-Within 7 Months ARO
	4.2.5	CDR-Within 10 Months ARO
	4.2.6	Test Readiness Review (TRR)-Within 18 Months ARO
	4.2.8	Teleconferences - Monthly
Deliver GH AIS Upgrade system	5	Within 18 Months ARO

Perform Qualification Testing	4.2.7, 4.3	Complete within 21 Months ARO
Provide Post-Delivery Support	7	Complete within 24 Months ARO

Table 1 - Services Summary

1.4 Contract Access Fee

GSA's operating costs are reimbursed through a Contract Access Fee (CAF) charged on orders placed against the Master Contract. The CAF is paid by the ordering agency, but remitted to GSA by the Contractor. The CAF rate, which is .75% at time of Master Contract Award, is applied to the total amount paid on each invoice. The Government will obligate funding to the CAF Contract Line Item Number (CLIN), and the Contractor shall use the CAF CLIN to collect these fees in accordance with the basic Alliant contract.

1.5 Task Order Pricing

The Contractor shall perform the effort required by this Task Order (TO) on a Firm Fixed Price (FFP) basis for CLINs 0001 and 0003.

The Contractor shall perform the effort required by this TO on a Cost Plus Fixed Fee (CPFF) - Completion basis for CLINs 0002 and 0004.

The Contractor shall perform the effort required by this TO on a Cost Reimbursable No Fee (CRNF) Not-to -Exceed (NTE) basis for CLINs 0005 and 0006.

CAF shall be provided on a NTE basis for CLIN 0007.

Period of Performance: 24 months After Receipt of Order (ARO)

Firm Fixed Price

CLIN	Description	Awarded Ceiling
0001	(b) (4)	(b) (4)
0003	(b) (4)	(b) (4)

Cost Plus Fixed Fee – Completion

CLIN	Description	Estimated Cost	Fixed Fee 10%	Total Estimated Cost Plus Fixed Fee
0002	NG Labor including (b) (4)	(b) (4)	(b) (4)	(b) (4)
0004	NG Material (b) (4)	(b) (4)	(b) (4)	(b) (4)

Cost Reimbursable No Fee

CLIN	Description	Total Ceiling Cost (NTE)
------	-------------	--------------------------

0005	Travel (b) (4)	(b) (4)
0006	IDIQ PM Cost	(b) (4)

Contract Access Fee

CLIN	Description	Total Ceiling Cost
0007	Contract Access Fee (.75%)	(b) (4)

TOTAL CEILING CLINS: \$12,226,278.95

2 Applicable Documents

2.1 Government Documents (Reserved)

2.2 Non-Government Documents (Reserved)

3 Performance Requirements

The following section defines the effort required for designing, developing, integrating, testing, managing, documenting, delivering, installing and providing user training for the GH AIS Upgrade system.

3.1 General Requirements

The word "shall" in the text expresses a mandatory requirement. The word "should" in the text expresses a recommendation or advice on implementing a requirement.

The word "will" in the text is used for the future tense. It does not express a requirement.

The word "may" in the text expresses a permissible practice or action. It does not express a requirement.

3.2 Program Management Requirements

The contractor shall establish a single point of contact with authority and responsibility for this task. This individual shall interface with the designated Government authorities to determine specific support requirements, coordinate task support activity, and deliver all task deliverables In Accordance With (IAW) the Contract Data Requirements Listings (CDRLs).

3.3 Environmental Management Requirements

3.3.1 Environmental Management System (EMS)

In accordance with the Assistant Secretary of the Air Force (SAF) Policy Letter, Conformance with Air Force Environmental Management System (EMS) Requirements for Contracts Performed on Air Force Installations, dated 11 Dec 2006, and the Air Force Materiel Command/Vice Commander (AFMC/CV) Policy Letter, Conformance with Air Force Environmental Management System (EMS) Requirements for Contracts Performed on Air Force Installations, dated 1 Aug 2007, Contractor personnel who perform work on any

USAF installation shall comply with the EMS requirements established by the installation.

3.3.2 Green Procurement Program

The Green Procurement Program (GPP) is a mandatory federal acquisition program that focuses on the purchase and use of environmentally preferable products and services. GPP requirements shall apply to all acquisitions using appropriated funds, including services and new requirements. FAR 23.404(b) applies and states that the GPP requires 100% of EPA designated product purchases, included in the Comprehensive Procurement Guidelines (CPG) list, contain recovered materials; unless the item cannot be acquired: a) competitively within a reasonable timeframe; b) meet appropriate performance standards, or c) at a reasonable price. The prime contractor is responsible for ensuring that all subcontractors comply with this requirement.

3.3.3 Hazardous Materials and Pollution Prevention

The contractor shall implement or use established Hazardous Materials and Pollution Prevention Programs. The Government does not require the use of ozone depleting substances or Environmental Protection Agency (EPA) identified toxic chemicals in the manufacture of equipment required in performance of this PWS and Contract. The Government's goals are to ensure environmental compliance, minimize safety and health risks, prevent pollution, eliminate the use of Class I ozone depleting substances (ODSs) and reduce or eliminate the use of hazardous materials and other ODSs to the maximum extent feasible at the lowest possible cost to the Government. Class I ODSs shall not be required to operate or maintain the product being considered in this procurement. The contractor shall refer to Title 40 Code of Federal Regulations (CFR) Chapter 1, Parts 82 and 116 for ODS and toxic chemicals.

3.4 Data Requirements

3.4.1 General

The contractor shall provide deliverables that document the GH AIS Upgrade development effort and describe the GH AIS Upgrade system. In accordance with DoD policy, whenever possible, the contractor shall provide "paperless" electronic or digital deliveries. For each data item delivery, the contractor shall submit a copy or notification as Report via a Post Award Collaboration in GSA's IT-Solutions Shop (ITSS) for review and acceptance by the Government.

3.4.2 Data Management

The contractor shall identify a contract data manager. The data manager shall have the authority and responsibility to integrate

and control the contractor's data management efforts during this contract.

3.4.3 Deviations

The contractor shall submit requests for deviations from contract requirements to the Government's Contracting Officer. Requests for deviations shall be submitted as soon as possible after the need for a deviation is identified.

3.4.4 Data Reuse

The contractor will maximize the reuse of available data and software during completion of the tasks listed in this PWS. All data and software reused during completion of the tasks listed in this PWS shall retain existing data and software rights. The contractor shall identify any necessary modifications to reused data and reused software during the Preliminary Design Review. Upon Government approval, the Contractor shall implement the identified necessary modifications during completion of the tasks listed in this PWS.

3.4.5 Data Rights

All new data and new software wholly produced under the tasks defined in this PWS shall be furnished to the Government with unlimited rights. The contractor shall identify and receive written approval from the Government Procuring Contracting Officer (PCO) prior to committing to the use of any non-COTS developmental items, components, processes, computer software and technical data which the contractor intends to deliver with limited rights, government purpose rights, or restricted rights.

3.4.6 Deliverable Documentation and Data

3.4.6.1 Monthly Status Report

The contractor shall provide monthly status reports to the Government documenting the task activity of the previous calendar month. These reports shall cover the logistical and technical support provided by the contractor and shall document task status, data deliverables, contract issues and actions, expenditure data; as well as, anticipated activities during the next reporting period. In addition, the monthly status reports shall contain a Funds Expenditure Chart (FEC) that plots actual and planned expenditures and man-hours against time. Problem areas shall be covered, solutions recommended, and solution implementation outcomes presented. The contractor shall submit an Integrated Master Schedule (IMS) in conjunction with the first monthly status report and subsequently with each monthly report. (CDRL A001, DI-MGMT-80368A/T and DI-MGMT-81861A)

3.4.6.2 Conference Agenda

The contractor shall provide an agenda for all reviews and meetings listed in Table 4 with the exception of monthly Working Group Teleconferences. (CDRL A002, DI-ADMN-81249B)

3.4.6.3 Conference Minutes

The contractor shall provide minutes for all reviews and meetings listed in Table 4 with the exception of monthly Working Group Teleconferences. (CDRL A003, DI-ADMN-81250B)

3.4.6.4 System Requirements Specification

The contractor shall provide a list of all GH AIS Upgrade system and interface requirements. This list shall include all requirements needed to implement this PWS as well as any derived requirements. (CDRL A004, DI-IPSC-81431A)

3.4.6.5 System Design Description

The contractor shall provide a detailed description of the GH AIS Upgrade system and interface design. (CDRL A005, DI-IPSC-81432A)

3.4.6.6 Source Code and Executables

The contractor shall provide electronic copies of all new source code and executables wholly created during completion of the tasks listed in this PWS. (CDRL A006, DI-IPSC-81488 and DI-IPSC-80590B)

3.4.6.7 Developmental Design Drawings / Models and Associated Lists

The contractor shall design the GH AIS Upgrade system. The GH AIS Upgrade system will include non-COTS items and COTS items. The contractor shall provide a Level 2 Technical Data Package (TDP) of the GH AIS Upgrade system.

The GH AIS Upgrade system TDP shall include:

1. Design drawings and specifications for all non-COTS items created during completion of the tasks defined in this PWS
2. A complete list of all non-COTS items reused during completion of the tasks defined in this PWS that includes identification number and references to available drawings/specifications for each item
3. A complete list of all COTS items included in the GH AIS Upgrade system that includes part number, general characteristics, and references to available vendor drawings/specifications for each item. This level of design information for COTS/vendor items will be considered acceptable for Level 2 TDP approval in lieu of meeting full Level 2 technical data requirements.

(CDRL A007, DI-SESS-81002F/T).

3.4.6.8 System Version Description

The contractor shall identify and record the version of the GH AIS Upgrade system that is delivered.

(CDRL A008, DI-IPSC-81442A)

3.4.6.9 System Installation Plan

The contractor shall provide a set of instructions for installing the GH AIS Upgrade system. Installation of both GH AIS Upgrade system hardware and software shall be included.

(CDRL A009, DI-IPSC-81428A/T)

3.4.6.10 System Test Plan and Description

The contractor shall provide a draft test plan and description for Government review prior to conducting GH AIS Upgrade system qualification testing and a final test plan and description upon successful completion of qualification testing. This test plan and description shall provide a description of what tests will be conducted on the system to verify that it meets requirements.

(CDRL A00A, DI-IPSC-81438A/T and DI-IPSC-81439A/T)

3.4.6.11 System Test Report

The contractor shall provide a test report identifying qualification testing results and any necessary correction recommendations. (CDRL A00B, DI-IPSC-81440A)

3.4.6.12 User Manual

The contractor shall provide a manual that describes how the user interacts with the GH AIS Upgrade system. This document can refer to any reference material deemed relevant by the contractor provided an electronic copy of this document is submitted to the Government. Online Help tips displayed at runtime can be used instead of a manual with Government approval. (CDRL A00C, DI-IPSC-81443A/T)

3.4.6.13 Safety and Health Plan

The contractor shall submit a Safety and Health Plan to the Government Program Manager Representative within 30 days ARO. The Government Program Manager Representative will forward the plan and this PWS to the Safety Office. In accordance with Air Force Pamphlet (AFPAM) 91-210, Contract Safety, paragraph 6.4, the Safety Office will review the plan and this PWS to determine if safety requirements are correctly addressed. The Contractor shall establish and maintain a safety program in accordance with OSHA, ESOH, the contract/order Appendix C (Industrial Safety Requirements), and the Safety and Health Plan.

(CDRL A00D, DI-SAFT-81626)

CDRL #	DOCUMENT	DID
A001	Monthly Status Report	DI-MGMT-80368A/T, DI-MGMT-81861A

A002	Meeting Agenda	DI-ADMN-81249B
A003	Meeting Minutes	DI-ADMN-81250B
A004	System Requirements Specification	DI-IPSC-81431A
A005	System Design Description	DI-IPSC-81432A
A006	Source Code and Executables	DI-IPSC-81488, DI-IPSC-80590B
A007	Developmental Design Drawings/Models Associated Lists	DI-SESS-81002F/T
A008	System Version Description	DI-IPSC-81442A
A009	System Installation Plan	DI-IPSC-81428A/T
A00A	System Test Plan and Description	DI-IPSC-81438A/T, DI-IPSC-81439A/T
A00B	System Test Report	DI-IPSC-81440A
A00C	User Manual	DI-IPSC-81443A/T
A00D	Safety and Health Plan	DI-SAFT-81626

Table 2 - Deliverable Documentation and Data Summary

3.4.7 Security Requirements

The following table provides classification guidance for the GH AIS Upgrade system being procured. The contractor shall identify, mark, and safeguard information from unauthorized dissemination in accordance with Department of Defense requirements as of the date of this contract.

GH AIS UPGRADE SYSTEM SUBJECT	CLASSIFICATION
Existence, designation, and association with the procuring activity	Unclassified
Purpose, employment, and military application	Unclassified
Configuration and requirements	Unclassified
General system capabilities	Unclassified
Hardware when not powered	Unclassified
Software	Unclassified
Program schedule and budget information	Unclassified

Table 3 - Classification Guidance Summary

3.4.7.1 Security Identification

The contractor shall submit a written request for identification credentials to the appropriate Contracting Officer through the Contracting Officer's Representative (COR), in accordance with DoD directives 5124.02 and 1000.25. If the contractor personnel require access to the Software Maintenance Group (SMXG) computer network (e.g., a ".mil" address is required), a System Authorization Access Request for the issuance of a Common Access Card (CAC) shall be submitted through the COR to the responsible Contracting Officer (CO), and processed through the Contractor Verification System (CVS).

The CAC shall be worn or prominently displayed in such a manner as to be visible at all times while performing work on or visiting the Government installation. Upon completion or termination of the contract/order or termination/transfer of the

employee, the CAC shall be returned to the cognizant CO/COR. The contractor shall be responsible for safeguarding all Government property provided for contractor use. At the end of each work period, contractor personnel shall ensure that all equipment and materials provided for their use shall be secured.

3.4.8 Place of Performance

During the life of this task, it is expected that the contractor shall be working both at contractor facilities and onsite at SMXG facilities at Robins, AFB, Ga. The Government will provide Contractor personnel access to systems and laboratories, on a non-interference basis to Government projects, as required to accomplish tasking described in all sub-paragraphs of this PWS. The Government will provide all required facility access forms and procedures to the contractor.

3.4.9 Schedule Requirements

Complete delivery of the GH AIS Upgrade system shall be achieved no later than eighteen (18) months After Receipt of Order (ARO). Qualification testing shall be completed no later than twenty one (21) months ARO. The overall period of performance shall be twenty four (24) months. The period between delivery and contract end will allow for post-delivery support including orientation, repair (hardware and software), maintenance (hardware and software), and on-site support as may be required. Any repair or maintenance required during this period shall be completed prior to final Government acceptance at the end of the post-delivery support period.

3.4.10 Government Furnished Information / Government Furnished Property

Known GFI / GFP necessary to support task execution is listed in Table 7. The contractor shall identify and submit within the proposal any additional GFI / GFP necessary to support task execution. The GFI list shall call out need dates and surrender dates on a per item basis. Upon receipt of this list, the Government will review for approval.

3.5 Specific GH AIS Upgrade System Requirements

The GH AIS Upgrade system will provide a reconfigurable, high-fidelity test bed that provides a comprehensive software and hardware support environment for RQ-4B GH configurations. This GH AIS Upgrade system will support the maintenance, test, and integration of OFPs resident in the RQ-4B GH LRUs that are listed in Table 6 of this PWS and will be used to support the integration of modified payload and/or aircraft system components. The GH AIS Upgrade system will also provide the integration and test capability for addressing Diminishing Manufacturing Sources and Material Shortage (DMSMS) issues on the aircraft systems.

3.5.1 GH AIS Upgrade System Requirements

To adequately test RQ-4B GH OFPs, the GH AIS Upgrade system will simulate the UAV Airframe, Avionics, and Airborne Communications and dynamic flight to provide the required truth data to the supported LRUs and associated high-fidelity simulations listed in Table 6 of this PWS.

1. The GH AIS Upgrade system shall simulate RQ-4B GH operation in a laboratory environment through the use of a combination of high-fidelity simulations and physical LRUs.
2. The GH AIS Upgrade system shall be designed to enable loading of OFP software versions.
3. The GH AIS Upgrade system shall be capable of Fault Insertion for the physical LRUs.
4. The GH AIS Upgrade system shall interface with simulated payload LRUs.
5. The GH AIS Upgrade system shall provide electrical power to the LRUs.
6. The GH AIS Upgrade system shall provide cooling to the LRUs.
7. The GH AIS Upgrade system shall provide necessary connections and cabling to provide truth data for elements contained in the GH AIS Upgrade system.
8. The GH AIS Upgrade system shall simulate the air vehicle flight aerodynamics.
9. The GH AIS Upgrade system shall provide atmospheric condition inputs (wind) to the air vehicle aerodynamics simulation.
10. The GH AIS Upgrade system shall provide the capability to use pre-recorded data to stimulate payload subsystems.
11. To facilitate real-time processing requirements, the GH AIS Upgrade system shall utilize a real-time operating system.

3.5.2 Support Equipment Requirements

In addition to air vehicle simulation, the GH AIS Upgrade system must simulate the Command and Control elements and provide an interface with external systems required for UAV communication.

3.5.2.1 Ground Segment Simulation Requirements

1. The GH AIS Upgrade system shall be capable of communication with a physical or virtual Launch and Recovery Element (LRE).
2. The GH AIS Upgrade system shall be capable of communication with a physical or virtual Mission Control Element (MCE).
3. The GH AIS Upgrade system shall be capable of communication with a physical or virtual Vehicle Test Computer (VTC).

3.5.2.2 *Communication Requirements*

1. The GH AIS Upgrade system shall provide a simulation of INMARSAT datalink.
2. The GH AIS Upgrade system shall provide a simulation of Ku SATCOM datalink.
3. The GH AIS Upgrade system shall provide a simulation of UHF SATCOM datalink.
4. The GH AIS Upgrade system shall provide a simulation of UHF LOS datalink.

3.5.3 *Software Requirements*

3.5.3.1 *Data Recording Requirements*

1. The GH AIS Upgrade system shall provide software capable of extracting, recording, and monitoring all MIL-STD-1553 bus communication.
2. The GH AIS Upgrade system shall provide software capable of extracting, recording, and monitoring all ARINC-429 bus communication.
3. The GH AIS Upgrade system shall provide software capable of extracting, recording, and monitoring all Ethernet communication.
4. The GH AIS Upgrade system shall provide software capable of extracting, recording, and monitoring all line of sight (LOS)/beyond line of sight (BLOS) data link communication.
5. The GH AIS Upgrade system shall provide software capable of extracting, recording, and monitoring all RS-422 communication.
6. The GH AIS Upgrade system shall provide software capable of extracting, recording, and monitoring all RS-232 communication.
7. The GH AIS Upgrade system shall provide software capable of extracting, recording, and monitoring all RS-485 communication.
8. The GH AIS Upgrade system shall provide software capable of extracting, recording, and monitoring all discrete communication.
9. The GH AIS Upgrade system software shall format displayable input and output data in the engineering units described in the ICD for each of the devices.
10. The GH AIS Upgrade system shall provide a message logging capability.
11. The GH AIS Upgrade system software shall display test status information.

3.5.3.2 *Interface Requirements*

1. The GH AIS Upgrade system operator interface shall incorporate graphical user interface displays.

2. The GH AIS Upgrade system software shall provide a scripting interface to facilitate task automation.
3. GH AIS Upgrade system test scenarios shall be capable of being created or modified by means of script commands.

3.6 Operations and Maintenance Orientation

The contractor shall provide familiarization material and hands-on instruction for the operation and maintenance of the GH AIS Upgrade system. This orientation shall include familiarization with the required toolsets and software components of the GH AIS Upgrade system and the options and operations of the GH AIS Upgrade system. The orientation shall be presented via electronic documentation as an independent product that does not require an instructor. In addition, the material shall also be presented in a classroom environment to an audience of up to fifteen (15) Government personnel prior to the end of the post-delivery support period.

4 Quality Assurance Requirements

4.1 General

The Contractor shall conduct a quality assurance program. The Contractor shall allow the Government to inspect quality assurance plans, processes, procedures, and records upon request. The Contractor's quality assurance programs shall provide the quality procedures to be followed throughout all areas of contract performance including manufacturing, documenting, testing, delivery, and installation.

4.2 Meetings

The contractor shall conduct program management meetings to present the status and progress of the GH AIS Upgrade effort. These meetings will support oversight by the Government of cost, schedule, risks, and technical progress. Each meeting will include an agenda and supporting minutes to include an action item list to support follow-on meetings. The contractor shall coordinate with the Government to develop meeting logistics. The contractor will conduct the following meetings:

4.2.1 Kickoff Meeting

The contractor shall conduct a Kickoff Meeting within 10 days ARO. (CDRL A002, DI-ADMN-81249A; CDRL A003, DI-ADMN-81250A)

4.2.2 Program Management Reviews

The contractor shall conduct quarterly Program Management Reviews. The primary goals are to assess risks to the program and review milestones. Program Management Reviews will be conducted concurrent with other reviews whenever practical. (CDRL A002, DI-ADMN-81249A; CDRL A003, DI-ADMN-81250A)

4.2.3 System Requirements Review

The contractor shall conduct a System Requirements Review within four and one-half (4.5) months ARO. The primary goal is to obtain concurrence on the established requirements. The System Requirements Review shall also include a Preliminary Design Review of the system hardware design. The contractor shall provide entry and exit criteria.

(CDRL A002, DI-ADMN-81249A; CDRL A003, DI-ADMN-81250A)

4.2.4 Preliminary Design Review

The contractor shall conduct a Preliminary Design Review of the system design within seven (7) months ARO. The primary goals are to assess the design maturity and to establish the technical baseline for the GH AIS Upgrade system. The Preliminary Design Review shall also include a Critical Design Review of the system hardware design. The contractor shall provide entry and exit criteria.

(CDRL A002, DI-ADMN-81249A; CDRL A003, DI-ADMN-81250A)

4.2.5 Critical Design Review

The contractor shall conduct a Critical Design Review of the system design within ten (10) months ARO. The primary goal is to finalize the system design for the GH AIS Upgrade system. The contractor shall provide entry and exit criteria.

(CDRL A002, DI-ADMN-81249A; CDRL A003, DI-ADMN-81250A)

4.2.6 Test Readiness Review

The contractor shall conduct a Test Readiness Review of the system within eighteen (18) months ARO. The primary goals are to review the GH AIS Upgrade system qualification test plan and ensure the GH AIS Upgrade system is ready for qualification testing. The contractor shall provide entry and exit criteria.

(CDRL A002, DI-ADMN-81249A; CDRL A003, DI-ADMN-81250A)

4.2.7 Qualification Testing

The contractor shall complete Qualification Testing of the system within twenty one (21) months ARO. The primary goal is to verify the system meets requirements. The contractor shall provide entry and exit criteria.

4.2.8 Working Group Teleconferences

The contractor will conduct monthly GH AIS Upgrade Working Group teleconferences to provide a forum for technical exchange, status review, action item tracking, and issue resolution. The contractor will coordinate with the Government to develop meeting logistics and ensure the proper participation. The working group meetings will serve to facilitate communication between the contractor engineering team, subject matter experts, and the Government end-users. Formal meeting agendas and meeting minutes will not be provided for working group meetings.

MEETING	LOCATION	FREQUENCY
Kickoff Meeting	As Coordinated	Once
Program Management Review	As Coordinated	Quarterly
System Requirements Review	As Coordinated	Once
Preliminary Design Review	As Coordinated	Once
Critical Design Review	As Coordinated	Once
Test Readiness Review	As Coordinated	Once
Qualification Testing	As Coordinated	Once
Working Group Teleconferences	As Coordinated	Monthly

Table 4 - Meeting Summary

4.3 Test Program

The contractor shall conduct a GH AIS Upgrade system test program to verify that the system complies with all of the operational, functional, and performance requirements as stated in this PWS. The test program shall consist of Government monitored on-site qualification testing. Acceptance of the GH AIS Upgrade system shall be contingent on successful completion of the on-site qualification testing without any unresolved failures. The contractor shall provide the Government with Test Plan and Description delineating the objectives, flow, personnel participation, and security requirements of the tests to be conducted. This plan shall include information on all of the quality testing to be accomplished, i.e. normal, informal and formal tests.

4.3.1 Responsibility for Inspections and Tests

The Contractor shall be responsible for planning, development, and performance of all inspections and tests of all subsystems, equipment, and components to ensure compliance with Government specifications. The Contractor shall also be responsible for planning, development, and performance of all inspections and tests of the entire GH AIS Upgrade system as required for Government acceptance.

4.3.2 Test Support

The contractor shall provide all maintenance, technical and logistical support services for the GH AIS Upgrade system and their associated interfaces during on-site qualification testing. The contractor shall provide all support equipment required for qualification testing conducted at the Government facilities.

4.3.3 On-site Qualification Testing

The contractor shall complete formal on-site qualification testing of the GH AIS Upgrade system delivered to the Government within twenty one (21) months ARO. The on-site qualification testing shall be conducted at SMXG facilities at Robins AFB, Georgia and shall be witnessed by Government representatives.

The on-site qualification testing shall be conducted subsequent to installation of the GH AIS Upgrade system in the SMXG facilities. The purpose of the on-site qualification testing shall be to demonstrate that the system complies with all operational, functional, and performance requirements of this PWS. The on-site qualification testing shall use the delivered GH AIS Upgrade system to demonstrate compliance with this PWS.

The contractor shall develop a test procedure for the on-site qualification testing and submit it for Government review and approval. Contractor shall allow the Government 30 days to review and approve the procedure prior to the start of on-site qualification testing. When approved by the Government, the contractor shall conduct the on-site qualification testing at the Government's facility after successful installation of the system into the SMXG facility. The contractor shall document test results in a test report.

5 Delivery and Installation Requirements

The Contractor shall pack and package the GH AIS Upgrade system using best commercial practices to prevent damage during delivery to the on-site location. The Contractor shall deliver the GH AIS Upgrade system to SMXG, Robins AFB, Georgia. Contractor personnel shall receive and inspect the GH AIS Upgrade system at the on-site location. The contractor shall correct any damage incurred to the GH AIS Upgrade system during shipping. Any and all expenses incurred to the simulator during delivery, will be the responsibility of the contractor. The Contractor shall move the GH AIS Upgrade system to the Government designated installation site.

At the on-site location, the Contractor shall unpack the GH AIS Upgrade system and disposition of the packaging and packing material in accordance with directions from the Government. The Contractor shall re-assemble and install the GH AIS Upgrade system, perform safety inspections, connect the system to facility power and ground, and perform system tests in preparation for the on-site qualification testing. All system sub-component failures and problems detected during the setup, installation, and checkout procedures shall be resolved prior to the start of the on-site qualification testing of that particular sub-component.

6 Network Integration (Reserved)

7 Post Delivery Support Requirement

The contractor shall provide a 6 month support period that begins on the date of completion of GH AIS Upgrade system delivery. The contractor shall repair contractor developed software and firmware wholly produced under the tasks defined by this PWS which prove defective during the support period.

PLACE OF PERFORMANCE:

Post Delivery Support is provided only at contractor facilities or onsite at the Government's facilities initial installation point.

PROCEDURES:

Government identified system and software problems are reported using the contractor's Problem Reports form provided by the contractor prior to completion of on-site qualification testing.

LIMITATION OF SUPPORT:

GH AIS Upgrade system commercial components are warranted only by the manufacturer for a period specified by that manufacturer. The contractor will assist the Government in coordinating the repair, by the manufacturer, of an item which fails or proves defective. The Government will be responsible for shipping commercial components back to the manufacturer for repair.

The foregoing support shall not apply to defects resulting from:

1. Improper or inadequate maintenance by Government;
2. Government-supplied software or interfacing;
3. Unauthorized modification or misuse;
4. Operation outside environmental specifications for product;
5. Improper Government installation, service, site preparation;
6. Accidental damage.

This support is limited to a total of Fifteen hundred (1,500) man-hours total during the support phase. The total support effort shall not exceed the total dollar value of the support cost proposed. If additional support is required, the Government shall request contractor pricing by support event.

Any failed item, deemed beyond economical repair, has reached its service end of life, or cannot be procured from the original OEM can be a candidate for additional cost to the contract on a case-by-case basis. The contractor may need to use refurbished or recovered components during the course of performing system repairs, but requires approval from the COR. This will only be done in the event a suitable new part is no longer available due to obsolescence.

8 Performance/Deliverables Matrix

PWS PARAGRAPH	Deliverable	Performance Standard	Method of Surveillance
3.4.6.1	Monthly Status Report	Initial report shall be submitted within 31 days of the end of the contractor's first full monthly accounting period following the effective date of ID04170197. All others due NLT ten (15) business days from the end of the previous month reporting period.	Periodic Inspection
3.4.6.2	Meeting Agenda	Due NLT three (3) business days prior to scheduled meeting.	Periodic Inspection
3.4.6.3	Meeting Minutes	Due NLT five (5) business days after scheduled meeting.	Periodic Inspection
3.4.6.4	System Requirements Specification	Initial draft due NLT five (5) business days prior to SRR. Updated drafts due at PDR and CDR. Final version due NLT fourteen (14)	Drafts: Periodic Inspection Final: 100% Inspection

		business days prior to contract end.	
3.4.6.5	System Design Description	Initial draft due at PDR. Updated drafts due NLT five (5) business days prior to CDR. Final version due NLT fourteen (14) business days prior to contract end.	Drafts: Periodic Inspection Final: 100% Inspection
3.4.6.6	Source Code and Executables	Initial draft due at TRR. Final version due NLT fourteen (14) business days prior to contract end.	Drafts: Periodic Inspection Final: 100% Inspection
3.4.6.7	Developmental Design Drawings/Models and Associated Lists	Initial draft due at TRR. Final version due NLT fourteen (14) business days prior to contract end.	Drafts: Periodic Inspection Final: 100% Inspection
3.4.6.8	System Version Description	Initial draft due at TRR. Final version due NLT fourteen (14) business days prior to contract end.	Drafts: Periodic Inspection Final: 100% Inspection
3.4.6.9	System Installation Plan	Initial draft due at TRR. Final version due NLT fourteen (14) business days prior to contract end.	Drafts: Periodic Inspection Final: 100% Inspection
3.4.6.10	System Test Plan and Description	Initial draft due NLT thirty (30) calendar days prior to TRR. Updated version due at TRR. Final version due NLT fourteen	Drafts: Periodic Inspection Final: 100% Inspection

		(14) business days prior to contract end.	
3.4.6.11	System Test Report	Initial draft due at TRR. Updated draft due NLT fourteen (14) business days after qualification testing completion. Final version due NLT fourteen (14) business days prior to contract end.	Drafts: Periodic Inspection Final: 100% Inspection
3.4.6.12	User Manual	Initial draft due NLT forty five (45) calendar days prior to contract end. Final version due NLT fourteen (14) business days prior to contract end.	Drafts: Periodic Inspection Final: 100% Inspection
3.4.6.13	Safety and Health Plan	Due NLT thirty (30) days ARO.	100% Inspection
3.6	User Familiarization Class	Completed NLT fourteen (14) calendar days prior to contract end.	100% Inspection
4.2	Meetings	Conducted As Scheduled	Periodic Inspection
5.0	Delivery and Installation Requirements	As Required	Periodic Inspection

Table 5 - Performance / Deliverables Matrix

9 Travel

The Contractor may be required to fulfill the requirements of this PWS via travel (e.g., site visits). The Contractor shall coordinate travel via a Post Award Collaboration in ITSS with COR approval prior to commencement of travel. The Contractor shall provide the purpose of the travel, number of participants, location and estimated cost. The contractor shall ensure that

the requested travel costs will not exceed what has been authorized in the task order. Contractor incurred actual expenses resulting from Government directed travel are cost reimbursable but are limited by the Government Joint Travel Regulations (JTR) and must be pre-approved by the COR. The contractor will include any anticipated travel costs in the proposal. G&A on Travel will only be allowed if it is quoted in the contractor's quote for this task order. Travel is cost reimbursable for this effort and in accordance with the Federal Travel Regulations. All travel must be in compliance with the task order and all other applicable requirements.

10 Specific Requirements

10.1 Personal Services

GSA will not issue orders to provide services prohibited by Subpart 37.1 of the Federal Acquisition Regulations (FAR). Administration and monitoring of the Contractor's performance by GSA or the Client Representative/COR shall not be as detailed or continual as to constitute supervision of Contractor personnel. Government personnel may not perform any supervisory functions for Contractor personnel, including but not limited to interviewing, appraising individual performance, and/or scheduling leave or work.

11 Invoice Requirements - The invoice shall include charges authorized by the COR which are within scope of this contract (e.g., travel, materials, training) and reflect the details specified below.

11.1 Payment Information

The Contractor shall utilize GSA's electronic Assisted Services Shared Information System (ASSIST) to submit invoices. The Contractor shall submit invoices electronically by logging onto the following link (requires Internet Explorer to access the link): <https://portal.fas.gsa.gov>.

Log in using your assigned ID and password, navigate to the order against which you want to invoice, click the Invoices and Acceptance Reports link in the left navigator, and then click the Create New Invoice button. The AASBS Help Desk should be contacted for support at 877-472- 4877 (toll free) or by email at AASBS.helpdesk@gsa.gov. By utilizing this method, no paper copy of the invoice shall be submitted to GSA or the GSA Finance Center. However, the COR may require the Contractor to submit a written -hardcopy invoice with the client's certification prior

to invoice payment. The COR and the GSA Customer Account Manager or Contract Specialist must approve each invoice in CIS prior to payment. Failure to enter an invoice into the GSA ITSS web-based system may result in a rejection.

If the contractor submits a revised invoice, the revised invoice must include: 1) a unique invoice number, 2) a brief explanation, and 3) a cross-reference to any previous invoice submittals for tracking purposes and avoiding duplication.

For reimbursable expenses, the invoiced charges shall not exceed the limit specified in the contract. No charges shall be paid by the Government, which are not specifically identified in the task and approved in advance by the Government. Copies of receipts, travel vouchers, etc., completed in accordance with Government Travel Regulations shall be attached to the invoice to support the charges. Original receipts shall be maintained by the Contractor and made available to Government auditors upon request.

The contractor shall submit Requests for Payments in accordance with the format contained in General Services Administration Acquisition Manual (GSAM) 552.232-25, PROMPT PAYMENT (NOV 2009), to be considered proper for payment.

The contractor shall provide the following payment information for GSA use. It must be an exact match with the information under the contract number in the AAS Business Systems Portal, ITSS Contract Registration (not the contractor's company or individual representative's registration) as well as with the information under the contractor's Data Universal Numbering System (DUNS) number in the System for Award Management (SAM), <http://www.sam.gov>. Mismatched information will result in rejected payments.

Company Name - Legal Business Name and Doing Business As (DBA) Name

Mailing Address - Contact and Address Information

Remittance Address - Remit To Address Information

Employer's Identification Number - Federal Tax ID

DUNS (Data Universal Numbering System)

11.2 Invoice Information

The contractor shall provide the following information on each invoice submitted via the GSA ASSIST and the Central Invoice System (CIS) at the following URL: <https://portal.fas.gsa.gov/>.

a. Invoice Number - do not use any special characters.

- b. ACT (GSA financial tracking number) Number from GSA Form 300, Block 4
- c. GSA Task Order Number
- d. Contract Number from GSA Form 300, Block 3
- e. Point of Contact and Phone Number
- f. Remittance Address
- g. Period of Performance for the billing period
- h. Charges, identified by deliverable or line item(s), with a narrative description of the service performed. Labor, reimbursable costs, and other charges (e.g., G&A) must be broken out.
- i. Prompt Payment Discount, if offered
- j. Total Invoice Amount - must match the acceptance information posted in ITSS; cannot exceed the current contract ceiling
- k. Total cumulative contract amount and burn rate
- l. The contractor shall clearly identify which CLIN each line item is being billed against.

11.3 Invoice Submittal

11.3.1

The invoice must be submitted to **GSA ASSIST and the Central Invoice System (CIS)** web-based Order Processing System (<https://portal.fas.gsa.gov/>). The COR and the GSA Customer Account Manager or Contract Specialist must approve the invoice in CIS prior to payment.

11.3.2

The payment information must satisfy a match between **CIS and SAM** for the invoice to be successfully processed for payment.

11.3.3

If the contractor submits a revised invoice, the revised invoice must include: 1) a unique invoice number, 2) a brief explanation, and 3) a cross-reference to any previous invoice submittals for tracking purposes and avoiding duplication.

11.3.4

Receipts, travel vouchers, etc. to support charges for other than employee labor hours must be completed in accordance with applicable Government regulations. The contractor shall maintain originals and make them available to the Government upon request. The contractor will also provide copies when requested by the Government.

11.3.5

Reimbursable costs must not exceed the limit(s) specified in the task order. The Government will not pay charges that are not

specifically identified in the task and approved, in advance, by the Government.

11.3.6

Invoices for final payment must be so identified and submitted when the task has been completed and no further charges are to be billed.

11.3.7

Firm Fixed Price (FPP) CLINs -

The contractor shall invoice in accordance with the milestone schedule listed on the SF 300 award document.

11.3.8

COST-PLUS-FIXED-FEE (CPFF) CLINs (FOR LABOR)-

The contractor shall invoice monthly on the basis of cost incurred for the CPFF CLINs. The invoice shall include the PoP covered by the invoice, CLIN number, and all labor categories associated with each CLIN. All hours and costs shall be reported by CLIN (as shown in Section 1.5), by contractor employee, and shall be provided for the current billing month and in total from Task Order inception to date. The listing shall include separate columns and totals for the current invoice period and the project to date. The contractor shall provide the invoice data in an unlocked spreadsheet form with the following detailed information:

- Employee company labor category
- CLIN
- Actual Rate
- Current Hours
- Current Amount
- Prior Cumulative Hours
- Prior Cumulative Amount
- Total Cumulative Hours
- Total Cumulative Amount
- Fixed fee
- Cost incurred not billed

11.4 Final Invoice/Task Order Closeout

Invoices for final payment must be so identified and submitted within 60 days from task completion. No further charges are to be billed. The Contractor shall request an extension for final invoices that may exceed the 60 days from the GSA Contracting Officer. Mark with the word FINAL (even if it is a zero amount). After the final invoice has been paid the Contractor shall

furnish a completed and signed Release of Claims to the Contracting Officer. This release of claims is due within fifteen (15) calendar days of final payment.

12 Federal Acquisition Regulations and Supplements, and Executive Orders (incorporated by reference or full text)

FAR 52.232-28	Invitation to Propose Performance Based Payments	Mar 2000
52.232-32	Performance-Based Payments	Apr 2012
52.245-1	Government Property	Jan 2017
52.245-9	Use and Charges	Apr 2012
52.246-2	Inspection of Supplies -- Fixed-Price	Aug 1996
52.246-3	Inspection of Supplies -- Cost-Reimbursement	May 2001
DFARS 252.201-7000	Contracting Officer's Representative	DEC 1991
DFARS 252.203-7001	Prohibition on Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2008
DFARS 252.203-7002	Requirement to Inform Employees of Whistleblower Rights	SEP 2013
DFARS 252.203-7005	Representation Relating to Compensation of Former DoD Officials	NOV 2011
DFARS 252.204-7000	Disclosure of Information	OCT 2016
DFARS 252.204-7003	Control of Government Personnel Work Product	Apr 1992
DFARS 252.204-7004	Alternate A, System for Award Management	Feb 2014
DFARS 252.204-7005	Oral Attestation of Security Requirements	Nov 2001
DFARS 252.204-7009	Limitations on the Use or Disclosure of Third-Party Contractor Reported Cyber Incident Information	OCT 2016
DFARS 252.204-7012	Safeguarding Covered Defense Information and Cyber Incident Reporting	OCT 2016
DFARS 252.205-7000	Provision of Information to Cooperative Agreement Holders	Dec 1991
DFARS 252.209-7004	Subcontracting with Firms that are Owned or Controlled by the Government of a Country that is a State Sponsor of	OCT 2015

	Terrorism	
DFARS 252.211-7007	Reporting of Government-Furnished Property	Aug 2012
DFARS 252.215-7000	Pricing Adjustments	Dec 2012
DFARS 252.215-7002	Cost Estimating System Requirements	Dec 2012
DFARS 252.223-7004	Drug Free Work Force	SEP 1988
DFARS 252.223-7006	Prohibition on Storage and Disposal of Toxic and Hazardous Materials	Sep 2014
DFARS 252.225-7012	Preference for Certain Domestic Commodities	DEC 2017
DFARS 252.225-7048	Export-Controlled Items	JUNE 2013
DFARS 252.226-7001	Utilization of Indian Organizations, Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	Sep 2004
DFARS 252.227-7013	RIGHTS IN TECHNICAL DATA--NONCOMMERCIAL ITEMS	(FEB 2014)
DFARS 252.227-7014	RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION	(FEB 2014)
DFARS 252.227-7015	TECHNICAL DATA-COMMERCIAL ITEMS	FEB 2014
DFARS 252.227-7017	IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS	JAN 2011
DFARS 252.227-7019	VALIDATION OF ASSERTED RESTRICTIONS-COMPUTER SOFTWARE	SEP 2016
DFARS 252.227-7028	TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT	JUN 1995
DFARS 252.245-7001	Tagging, Labeling, and Marking of Government-Furnished Property	APR 2012
DFARS 252.245-7002	Reporting Loss of Government Property	Dec 2017
DFARS 252.245-7003	Contractor Property Management System Administration	APR 2012
DFARS 252.245-7004	Reporting, Reutilization, and Disposal	Dec 2017

52.216-7 -- Allowable Cost and Payment.

(a) *Invoicing.*

(1) The Government will make payments to the Contractor when requested as work progresses, but (except for small business concerns) not more often than once every 2 weeks, in amounts determined to be allowable by the Contracting Officer in accordance with Federal Acquisition Regulation (FAR) Subpart 31.2 in effect on the date of this contract and the terms of this contract. The Contractor may submit to an authorized representative of the Contracting Officer, in such form and reasonable detail as the representative may require, an invoice or voucher supported by a statement of the claimed allowable cost for performing this contract.

(2) Contract financing payments are not subject to the interest penalty provisions of the Prompt Payment Act. Interim payments made prior to the final payment under the contract are contract financing payments, except interim payments if this contract contains Alternate I to the clause at 52.232-25.

(3) The designated payment office will make interim payments for contract financing on the _____ [Contracting Officer insert day as prescribed by agency head; if not prescribed, insert "30th"] day after the designated billing office receives a proper payment request. In the event that the Government requires an audit or other review of a specific payment request to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make payment by the specified due date.

(b) *Reimbursing costs.*

(1) For the purpose of reimbursing allowable costs (except as provided in subparagraph (b)(2) of this clause, with respect to pension, deferred profit sharing, and employee stock ownership plan contributions), the term "costs" includes only --

(i) Those recorded costs that, at the time of the request for reimbursement, the Contractor has paid by cash, check, or other form of actual payment for items or services purchased directly for the contract;

(ii) When the Contractor is not delinquent in paying costs of contract performance in the ordinary course of business, costs incurred, but not necessarily paid, for --

(A) Supplies and services purchased directly for the contract and associated financing payments to subcontractors, provided payments determined due will be made—

(1) In accordance with the terms and conditions of a subcontract or invoice; and

(2) Ordinarily within 30 days of the submission of the Contractor's payment request to the Government;

(B) Materials issued from the Contractor's inventory and placed in the production process for use on the contract;

(C) Direct labor;

(D) Direct travel;

(E) Other direct in-house costs; and

(F) Properly allocable and allowable indirect costs, as shown in the records maintained by the Contractor for purposes of obtaining reimbursement under Government contracts; and

(iii) The amount of financing payments that have been paid by cash, check or other form of payment to subcontractors.

(2) Accrued costs of Contractor contributions under employee pension plans shall be excluded until actually paid unless—

(i) The Contractor's practice is to make contributions to the retirement fund quarterly or more frequently; and

(ii) The contribution does not remain unpaid 30 days after the end of the applicable quarter or shorter payment period (any contribution remaining unpaid shall be excluded from the Contractor's indirect costs for payment purposes).

(3) Notwithstanding the audit and adjustment of invoices or vouchers under paragraph (g) of this clause, allowable

indirect costs under this contract shall be obtained by applying indirect cost rates established in accordance with paragraph (d) of this clause.

(4) Any statements in specifications or other documents incorporated in this contract by reference designating performance of services or furnishing of materials at the Contractor's expense or at no cost to the Government shall be disregarded for purposes of cost-reimbursement under this clause.

(c) *Small business concerns.* A small business concern may receive more frequent payments than every 2 weeks

(d) *Final indirect cost rates.*

(1) Final annual indirect cost rates and the appropriate bases shall be established in accordance with Subpart 42.7 of the Federal Acquisition Regulation (FAR) in effect for the period covered by the indirect cost rate proposal.

(2)

(i) The Contractor shall submit an adequate final indirect cost rate proposal to the Contracting Officer (or cognizant Federal agency official) and auditor within the 6-month period following the expiration of each of its fiscal years. Reasonable extensions, for exceptional circumstances only, may be requested in writing by the Contractor and granted in writing by the Contracting Officer. The Contractor shall support its proposal with adequate supporting data.

(ii) The proposed rates shall be based on the Contractor's actual cost experience for that period. The appropriate Government representative and the Contractor shall establish the final indirect cost rates as promptly as practical after receipt of the Contractor's proposal.

(iii) An adequate indirect cost rate proposal shall include the following data unless otherwise specified by the cognizant Federal agency official:

(A) Summary of all claimed indirect expense rates, including pool, base, and calculated indirect rate.

(B) *General and Administrative expenses (final indirect cost pool)*. Schedule of claimed expenses by element of cost as identified in accounting records (Chart of Accounts).

(C) *Overhead expenses (final indirect cost pool)*. Schedule of claimed expenses by element of cost as identified in accounting records (Chart of Accounts) for each final indirect cost pool.

(D) *Occupancy expenses (intermediate indirect cost pool)*. Schedule of claimed expenses by element of cost as identified in accounting records (Chart of Accounts) and expense reallocation to final indirect cost pools.

(E) Claimed allocation bases, by element of cost, used to distribute indirect costs.

(F) Facilities capital cost of money factors computation.

(G) Reconciliation of books of account (*i.e.*, General Ledger) and claimed direct costs by major cost element.

(H) Schedule of direct costs by contract and subcontract and indirect expense applied at claimed rates, as well as a subsidiary schedule of Government participation percentages in each of the allocation base amounts.

(I) Schedule of cumulative direct and indirect costs claimed and billed by contract and subcontract.

(J) *Subcontract information*. Listing of subcontracts awarded to companies for which the contractor is the prime or upper-tier contractor (include prime and subcontract numbers; subcontract value and award type; amount claimed during the fiscal year; and the subcontractor name, address, and point of contact information).

(K) Summary of each time-and-materials and labor-hour contract information, including labor categories, labor rates, hours, and amounts;

direct materials; other direct costs; and, indirect expense applied at claimed rates.

(L) Reconciliation of total payroll per IRS form 941 to total labor costs distribution.

(M) Listing of decisions/agreements/approvals and description of accounting/organizational changes.

(N) Certificate of final indirect costs (see 52.242-4, Certification of Final Indirect Costs).

(O) Contract closing information for contracts physically completed in this fiscal year (include contract number, period of performance, contract ceiling amounts, contract fee computations, level of effort, and indicate if the contract is ready to close).

(iv) The following supplemental information is not required to determine if a proposal is adequate, but may be required during the audit process:

(A) Comparative analysis of indirect expense pools detailed by account to prior fiscal year and budgetary data.

(B) General organizational information and limitation on allowability of compensation for certain contractor personnel. See 31.205-6(p). Additional salary reference information is available at http://www.whitehouse.gov/omb/procurement_index_exe_comp/.

(C) Identification of prime contracts under which the contractor performs as a subcontractor.

(D) Description of accounting system (excludes contractors required to submit a CAS Disclosure Statement or contractors where the description of the accounting system has not changed from the previous year's submission).

(E) Procedures for identifying and excluding unallowable costs from the costs claimed and billed (excludes contractors where the procedures

have not changes from the previous year's submission).

(F) Certified financial statements and other financial data (e.g., trial balance, compilation, review, etc).

(G) Management letter from outside CPAs concerning any internal control weaknesses.

(H) Actions that have been and/or will be implemented to correct the weaknesses described in the management letter from subparagraph (G) of this section.

(I) List of all internal audit reports issued since the last disclosure of internal audit reports to the Government.

(J) Annual internal audit plan of scheduled audits to be performed in the fiscal year when the final indirect cost rate submission is made.

(K) Federal and State income tax returns.

(L) Securities and Exchange Commission 10-K annual report.

(M) Minutes from board of directors meetings.

(N) Listing of delay claims and termination claims submitted which contain costs relating to the subject fiscal year.

(O) Contract briefings, which generally include a synopsis of all pertinent contract provisions, such as: Contract type, contract amount, product or service(s) to be provided, contract performance period, rate ceilings, advance approval requirements, pre-contract cost allowability limitations, and billing limitations.

(v) The Contractor shall update the billings on all contracts to reflect the final settled rates and update the schedule of cumulative direct and indirect costs claimed and billed, as required in paragraph

(d)(2)(iii)(I) of this sections, within 60 days after settlement of final indirect cost rates.

(3) The Contractor and the appropriate Government representative shall execute a written understanding setting forth the final indirect cost rates. The understanding shall specify

- (i) the agreed-upon final annual indirect cost rates,
- (ii) the bases to which the rates apply,
- (iii) the periods for which the rates apply,
- (iv) any specific indirect cost items treated as direct costs in the settlement, and
- (v) the affected contract and/or subcontract, identifying any with advance agreements or special terms and the applicable rates.

The understanding shall not change any monetary ceiling, contract obligation, or specific cost allowance or disallowance provided for in this contract. The understanding is incorporated into this contract upon execution.

(4) Failure by the parties to agree on a final annual indirect cost rate shall be a dispute within the meaning of the Disputes clause.

(5) Within 120 days (or longer period if approved in writing by the Contracting Officer) after settlement of the final annual indirect cost rates for all years of a physically complete contract, Contractor shall submit a completion invoice or voucher to reflect the settled amounts and rates. The completion invoice or voucher shall include settled subcontract amounts and rates. The prime contractor is responsible for settling subcontractor amounts and rates included in the completion invoice or voucher and providing status of subcontractor audits to the contracting officer upon request.

(6)

- (i) If the Contractor fails to submit a completion invoice or voucher within the time specified in

paragraph (d)(5) of this clause, the Contracting Officer may--

(A) Determine the amounts due to the Contractor under the contract; and

(B) Record this determination in a unilateral modification to the contract.

(ii) This determination constitutes the final decision of the Contracting Officer in accordance with the Disputes clause.

(e) *Billing rates.* Until final annual indirect cost rates are established for any period, the Government shall reimburse the Contractor at billing rates established by the Contracting Officer or by an authorized representative (the cognizant auditor), subject to adjustment when the final rates are established. These billing rates --

(1) Shall be the anticipated final rates; and

(2) May be prospectively or retroactively revised by mutual agreement, at either party's request, to prevent substantial overpayment or underpayment.

(f) *Quick-closeout procedures.* Quick-closeout procedures are applicable when the conditions in FAR 42.708(a) are satisfied.

(g) *Audit.* At any time or times before final payment, the Contracting Officer may have the Contractor's invoices or vouchers and statements of cost audited. Any payment may be --

(1) Reduced by amounts found by the Contracting Officer not to constitute allowable costs; or

(2) Adjusted for prior overpayments or underpayments.

(h) *Final payment.*

(1) Upon approval of a completion invoice or voucher submitted by the Contractor in accordance with paragraph (d)(5) of this clause, and upon the Contractor's compliance with all terms of this contract, the Government shall promptly pay any balance of allowable costs and that part of the fee (if any) not previously paid.

(2) The Contractor shall pay to the Government any refunds, rebates, credits, or other amounts (including interest, if any) accruing to or received by the Contractor or any assignee under this contract, to the extent that those amounts are properly allocable to costs for which the Contractor has been reimbursed by the Government. Reasonable expenses incurred by the Contractor for securing refunds, rebates, credits, or other amounts shall be allowable costs if approved by the Contracting Officer. Before final payment under this contract, the Contractor and each assignee whose assignment is in effect at the time of final payment shall execute and deliver --

(i) An assignment to the Government, in form and substance satisfactory to the Contracting Officer, of refunds, rebates, credits, or other amounts (including interest, if any) properly allocable to costs for which the Contractor has been reimbursed by the Government under this contract; and

(ii) A release discharging the Government, its officers, agents, and employees from all liabilities, obligations, and claims arising out of or under this contract, except --

(A) Specified claims stated in exact amounts, or in estimated amounts when the exact amounts are not known;

(B) Claims (including reasonable incidental expenses) based upon liabilities of the Contractor to third parties arising out of the performance of this contract; provided, that the claims are not known to the Contractor on the date of the execution of the release, and that the Contractor gives notice of the claims in writing to the Contracting Officer within 6 years following the release date or notice of final payment date, whichever is earlier; and

(C) Claims for reimbursement of costs, including reasonable incidental expenses, incurred by the Contractor under the patent clauses of this contract, excluding, however, any expenses arising from the Contractor's indemnification of the Government against patent liability.

(End of Clause)

The following clauses in the basic contract do not apply to the task order associated with this PWS:

- FAR 52.211-11, Liquidated Damages - Supplies, Services, or Research and Development (Sept 2000)
- FAR 52.215-17, Waiver of Facilities Capital Cost of Money (Oct 1997)
- FAR 52.216-10, Incentive Fee (Jun2011)
- FAR 52.216-16, Incentive Price Revision -- Firm Target (Oct 1997)
- FAR 52.216-16, Alternate I (Apr 1984)
- FAR 52.216-17, Incentive Price Revision -- Successive Targets (Oct 1997)
- FAR 52.216-17, Alternate I (Apr 1984)
- FAR 52.216-29, Time-and-Materials/Labor-Hour Proposal Requirements-Non-Commercial Item Acquisition With Adequate Price Competition (Feb 2007)
- FAR 52.227-17, Rights in Data - Special Works (Dec 2007)
- Far 52.227-22, Major System -- Minimum Rights (Jun 1987)
- Far 52.228-4, Workers' Compensation and War-Hazard Insurance Overseas (Apr 1984)
- Far 52.229-6, Taxes -- Foreign Fixed-Price Contracts (Feb 2013)
- Far 52.229-8, Taxes -- Foreign Cost-Reimbursement Contracts (Mar 1990)
- Far 52.229-10, State of New Mexico Gross Receipts and Compensating Tax (April 2003)
- 52.232-7, Payments under Time-and-Materials and Labor-Hour Contracts (Aug 2012)
- FAR 52.246-19, Warranty of Systems and Equipment under Performance Specifications or Design Criteria (May 2001)
- 52.243-6 Change Order Accounting (Apr 1984)
- 52.246-20 Warranty of Services (May 2001)
- 52.250-5 Safety Act - Equitable Adjustment (Feb 2009)

13 Past Performance Information

The Government will provide and record Past Performance Information for acquisitions over **\$150,000** utilizing the Contractor Performance Assessment Reporting System (CPARS). The

CPARS process allows Contractors to view and comment on the Government's evaluation of the Contractor's performance before it is finalized. Once the Contractor's past performance evaluation is finalized in CPARS it shall be transmitted into the Past Performance Information Retrieval System (PPIRS). Contractors are required to register in the CPARS, so Contractor's may review and comment on past performance reports submitted through the CPARS. The CPARS and PPIRS websites are as follows:

CPARS <https://www.cpars.csd.disa.mil/>
PPIRS <http://www.ppirs.gov>

14 Acronyms

AAS	Assisted Acquisition Services
AFMC	Air Force Material Command
AFPAM	Air Force Pamphlet
AIS	Avionics Integration Support
ARINC	Aeronautical Radio, Incorporated
ARO	After Receipt of Order
BLOS	Beyond Line of Sight
CAC	Common Access Card
CDRL	Contract Data Requirements Listing
CIS	Central Invoice System
CO	Contracting Officer
CFR	Code of Federal Regulations
COR	Contracting Officer's Representative
COTS	Commercial Off-The-Shelf
CPARS	Contractor Performance Assessment Reporting System
CPG	Comprehensive Procurement Guidelines
CV	Vice Commander
CVS	Contractor Verification System
DBA	Doing Business As
DFARS	Defense Federal Acquisition Regulation Supplement
DMSMS	Diminishing Manufacturing Sources & Material Shortage
DOD	Department of Defense
DUNS	Data Universal Numbering System
ECS	Embedded Computer System
EMS	Environmental Management System
EPA	Environmental Protection Agency
ESOH	Environmental Safety and Occupational Health
FAR	Federal Acquisition Regulations
FEC	Funds Expenditure Chart
GFI	Government Furnished Information
GFP	Government Furnished Property
GH	Global Hawk
GPP	Green Procurement Program
GSA	General Services Administration

GWAC	Government-wide Acquisition Contract
IAW	In Accordance With
IMS	Integrated Master Schedule
IAW	In Accordance With
INMARSAT	International Maritime Satellite
ITSS	IT Solutions Shop
LOS	Line of Sight
LRE	Launch and Recovery Element
LRU	Line Replaceable Unit
MCE	Mission Control Element
MIL-STD	Military Standard
ODS	Ozone Depleting Substances
OPF	Operational Flight Program
OPF	Operational Flight Program
OSHA	Occupational Safety and Health Administration
PPIRS	Past Performance Information Retrieval System
PWS	Performance Work Statement
NLT	No Later Than
NSN	National Stock Number
SAF	Secretary of the Air Force
SAM	System for Award Management
SATCOM	Satellite Communications
SMXG	Software Maintenance Group
TDP	Technical Data Package
UAV	Unmanned Aerial Vehicle
VTC	Vehicle Test Computer

15 Appendices

15.1 GH System List for Sustainment Support

The GH AIS Upgrade system will support sustainment of the RQ-4B (Block 30/40) GH systems listed in Table 6.

NSN	LRU
7025015922995	ADC
5930016202292	Air Vehicle Ethernet Switch
Multiple	ASIP
Multiple	EISS
5895015548197	IMMC
1680015516279	Ground Control Panel
Multiple	MP-RTIP
6615016250835	SMU

Table 6 - Sustainment Support System List

15.2 GFI / GFP List

The known GFI and GFP needed for the GH AIS Upgrade effort is listed in Table 7. The contractor shall submit additional GFI and GFP needs within the proposal.

NSN	ITEM
N/A	IMMC OFP Binary
N/A	SMU OFP Binary

Table 7 - GFI / GFP List